



Preliminary Information

PIP5179D Extended Crank Cold With DI (Direct Injected) Engines

Models

| Brand: | Model: | Model Years: | VIN: | | Engine: | Transmissions: |
|-----------|--------------|--------------|------|-----|----------------------------|----------------|
| | | | from | to | | |
| Cadillac | CTS-V | 2016 - 2018 | All | All | 6.2L LT4 | All |
| Cadillac | Escalade | 2016 - 2018 | All | All | 6.2L L86 | All |
| Chevrolet | Camaro | 2016 - 2018 | All | All | 6.2L LT4, LT1 | All |
| Chevrolet | Corvette | 2014 - 2018 | All | All | 6.2L LT1 LT4 | All |
| Chevrolet | Silverado | 2014 - 2018 | All | All | 4.3L 5.3L 6.2L L83 L86 LV3 | All |
| Chevrolet | Suburban | 2015 - 2018 | All | All | 5.3L L83 | All |
| Chevrolet | Tahoe | 2015 - 2018 | All | All | 5.3L L83 | All |
| GMC | Sierra | 2014 - 2018 | All | All | 4.3L 5.3L 6.2L L83 L86 LV3 | All |
| GMC | Yukon Models | 2014 - 2018 | All | All | 5.3L 6.2L L83 L86 | All |

Supersession Statement

This PI was superseded to update Model Years. Please discard PIP5179C.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

Condition / Concern

DI (Direct Injected) Engines with concerns of extended or long crank time during cold ambient air temps.

Recommendations / Instructions

Direct Injection engines may have slightly longer cold crank times than that of port fuel engines.

Direct Injection systems run at higher pressures, and the mechanical pump on the engine must build up the required pressure before the first injection event occurs.

The below are typical Direct Injection engine crank times on GASOLINE

Start up Coolant Temperature Crank Time

Above 10° C up to 1.5 sec

Between 10°c (50F) and (- 10°c 14F) up to 2.5 sec

Between (-10°c 14F) and (-20°c -4F) up to 3.5 sec

Between (-20°c -4F) and (-25°c -13F) up to 5 sec

Between (-25°c -13F) and (-30°c -22F) up to 7 sec

Below -30 deg. C -22F, the recommendation is to perform an assisted start (such as use of a block heater).

Note = For ETHANOL fuel see #PIP5174: Extended Engine Crank Times When Using E85

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

